

Title (en)

PROCESS FOR THE PRODUCTION OF LOW COLOR 2,3-EPOXYPROPYL TRIALKYLAMMONIUM HALIDE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON NIEDRIG FARBIGEM 2,3-EPOXYPROPYLTRIALKYLAMMONIUM HALID

Title (fr)

PROCEDE DE PRODUCTION D'UN HALOGENURE 2,3-EPOXYPROPYL TRIALKYLAMMONIUM FAIBLEMENT COLORE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0010987A1] An aqueous solution of 2,3-Epoxypropyltrimethylammonium chloride having reduced color and method of preparation are disclosed. 2,3-Epoxypropyltrimethylammonium chloride is treated with sodium hypochlorite to reduce its color. 2-3-Epoxypropyltrimethylammonium chloride can be prepared via reaction of trimethylamine and epichlorohydrin. If desired, an aprotic solvent can be used. 2-3-Epoxypropyltrimethylammonium chloride formed in the resultant slurry, must then be isolated via known methods, such as evaporation, extraction, centrifugation, etc. depending upon the other constituents of the slurry and the residual epichlorohydrin removed. The final product is then treated with an effective amount of sodium hypochlorite. The obtained 2-3-Epoxypropyltrimethylammonium chloride then is used for, for example, color-sensitive applications such as to produce cationic starch for use in paper manufacture.

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